PAC-42H 4-slot
Half-Size CHASSIS
USER'S MANUAL

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Chapter 1 Product Information

1.1 General Information

PAC-42H IPC chassis is a rugged PC/AT compatible computer designed for the factory floor and other industrial harsh environment. PAC-42H features 4 slots Passive Backplane for embedded application.
The chassis can easily be mounted on panels or walls with the supplied brackets.

1.2 Product Specifications

General specification

- Construction : Heavy-duty steel
- Indicator : Three LEDs to monitor the status of HDD, FAN1, and Power Supply
- Dimension : 256.6mm x 182.6(140)mm x 236(230) mm (LxWxH)

-ACE-870A power supply
-Supports almost half-size CPU cards in the market.
-Two 2.5" HDD or one 3.5" HDD (option)
-One FDD

Application

* PC based embedded controllers
* Vending machines
* Mobile communication system
* PC based data collection unit
* Wall or panel mounting PC

Passive Backplane (Option)

BP-4S 4-slot ISA bus Backplane
IP-4S/IP4S2 4-slot PCISA bus Backplane

Power Supply

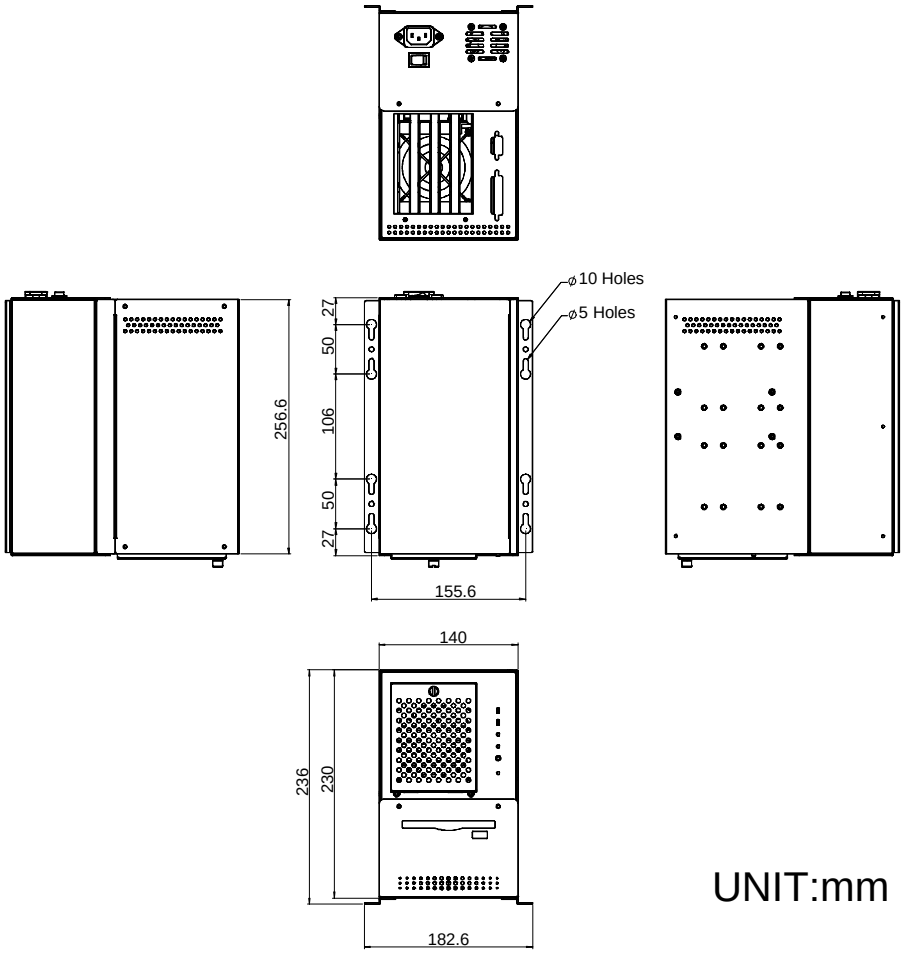
PAC-42H is equipped with ACE-870A Industrial Compact Size Power Supply.
85-265 VAC input at 47-63 Hz and 440Hz input frequency.
100% equipped "NIPPON CHEMI-CON" super high reliability Aluminum Electrolytic Capacitors.
60 KHz Switching Frequency Control IC inside.
0-60^{o} Operating Temperature.
High precision and stable DC outputs for long term operation.
Output Voltage:+5V +12V -5V -12V
MTBF:274,000 HRs
Safety: UL, TUV, CSA

Working Environment

- Operating Temperature : 0~60℃
- Relative Humidity : 5~95% Relative
- Vibration : 5-17Hz, 0.1” double amplitude displacement
  17-640Hz, 1.5G acceleration peak to peak
- Shock : 10G acceleration peak to peak

1.3 Dimensions

The dimensions of PAC-42H are as shown as following figure.

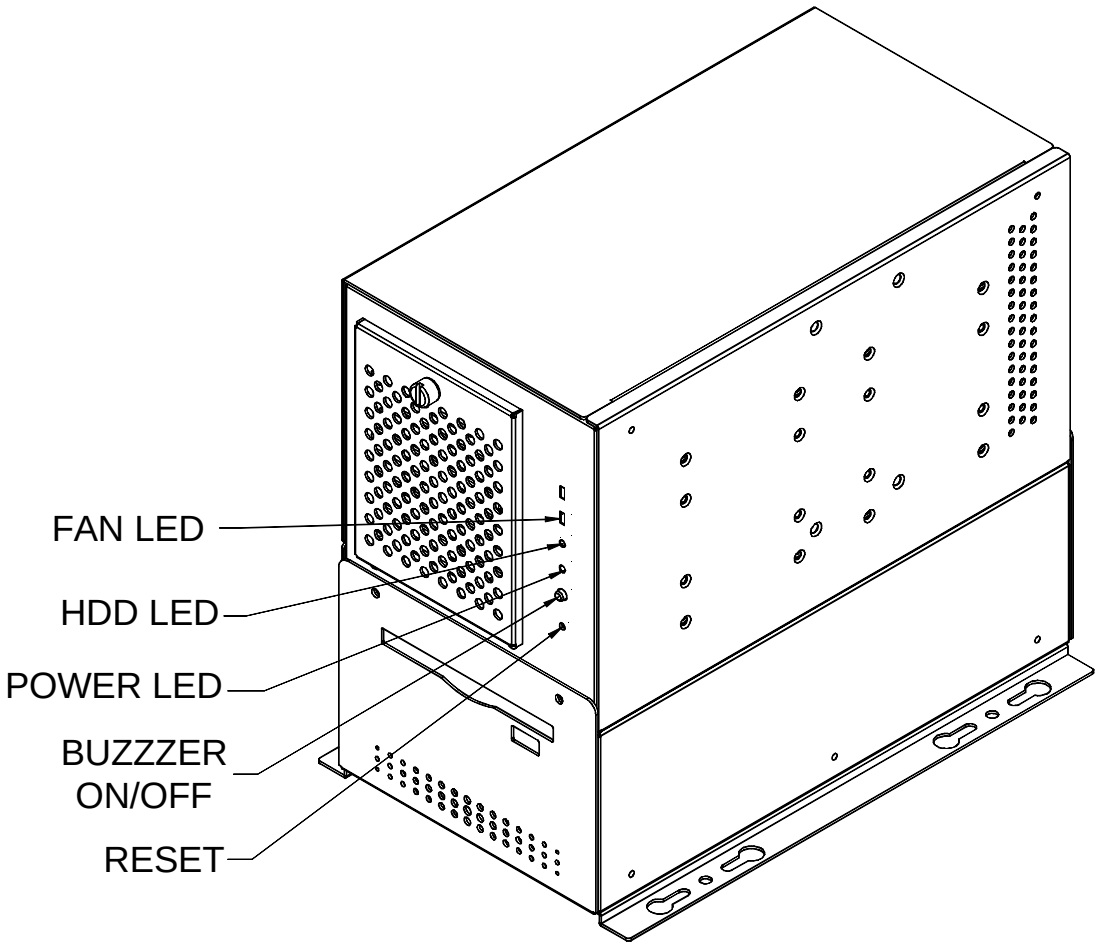


Chapter 2 Installation Procedure

The following statements are provided to assist you in installing the system unit. Please follow the steps below:

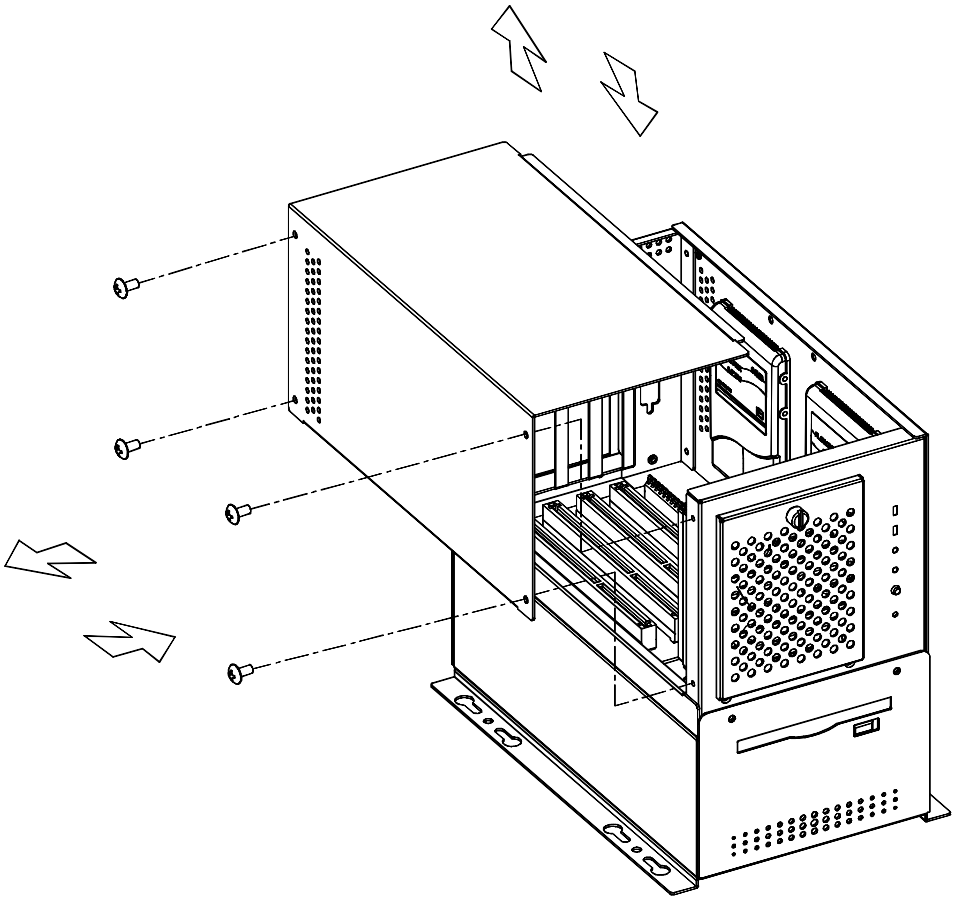
2.1Front Panel of PAC-42H

PAC-42H is equipped with IP-52 control board. As the figure illustrates, there are three LED indicators, one Buzzer ON/OFF button and one reset button in this panel.



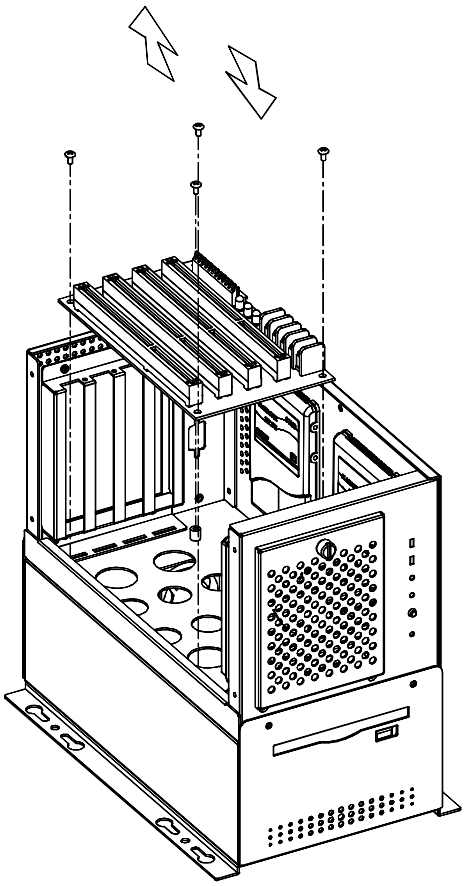
2. 2 Removing the chassis cover

As the figure indicates, the cover of chassis is mounted by 4 screws and consequently by releasing them, the cover of PAC-42H can be removed.



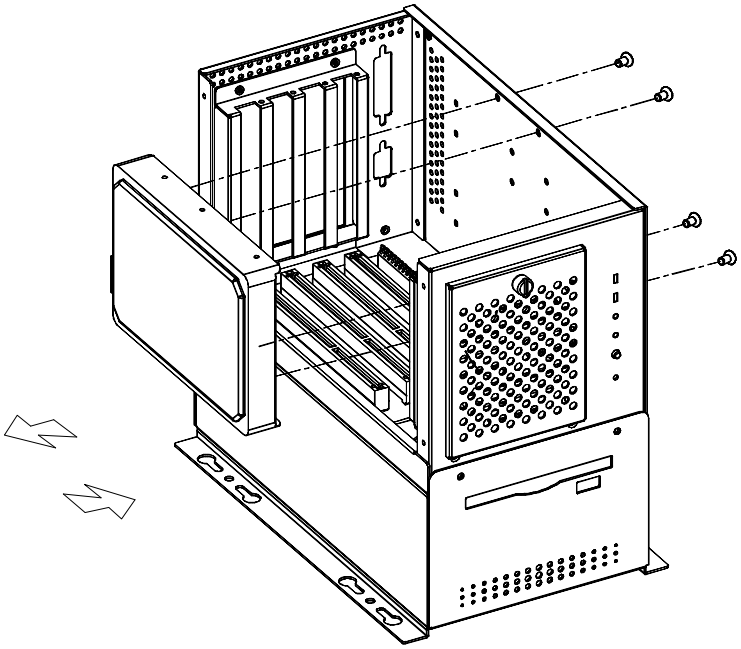
2.3 Backplane Installation

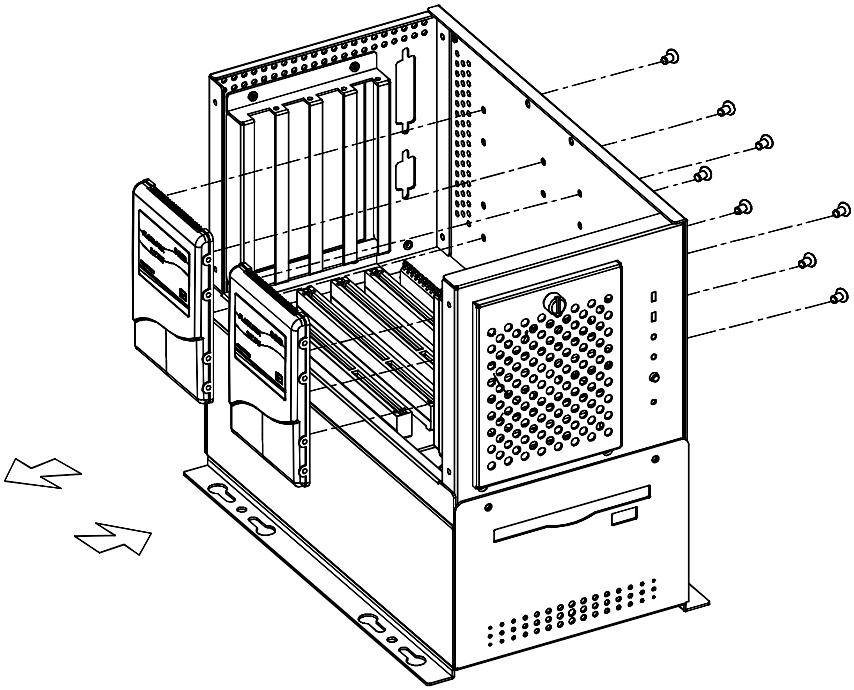
Figure below illustrates that backplane of PAC-42H is screwed by 4 screws. Therefore for backplane installing, all you have to do is put it on the bottom of chassis and screws it.



2.4 Disk Drive Installation

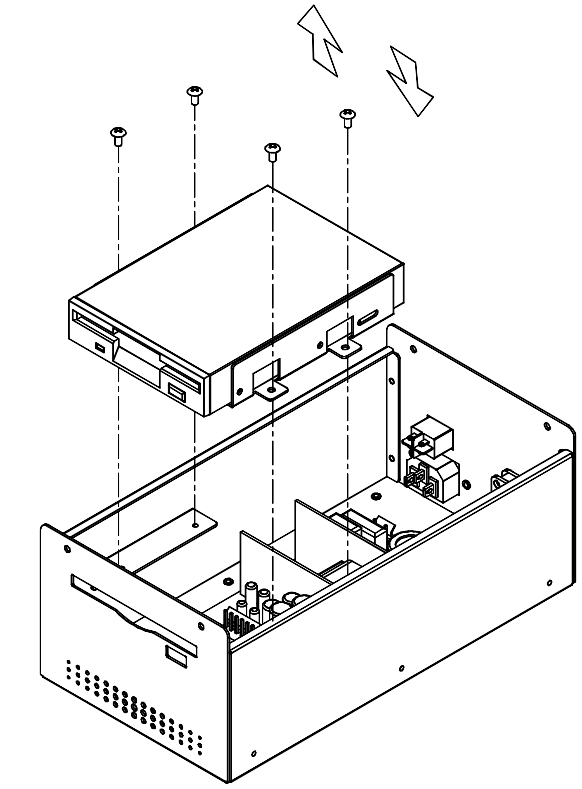
PAC-42H allows users to install two 2.5" HDD simultaneously or one 3.5" HDD as the figures show.

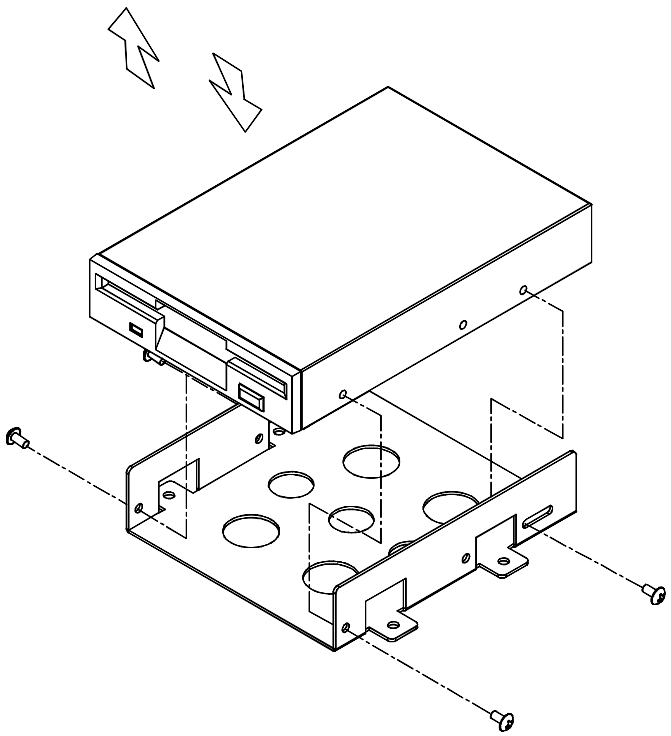




2.4.1 FDD Installation

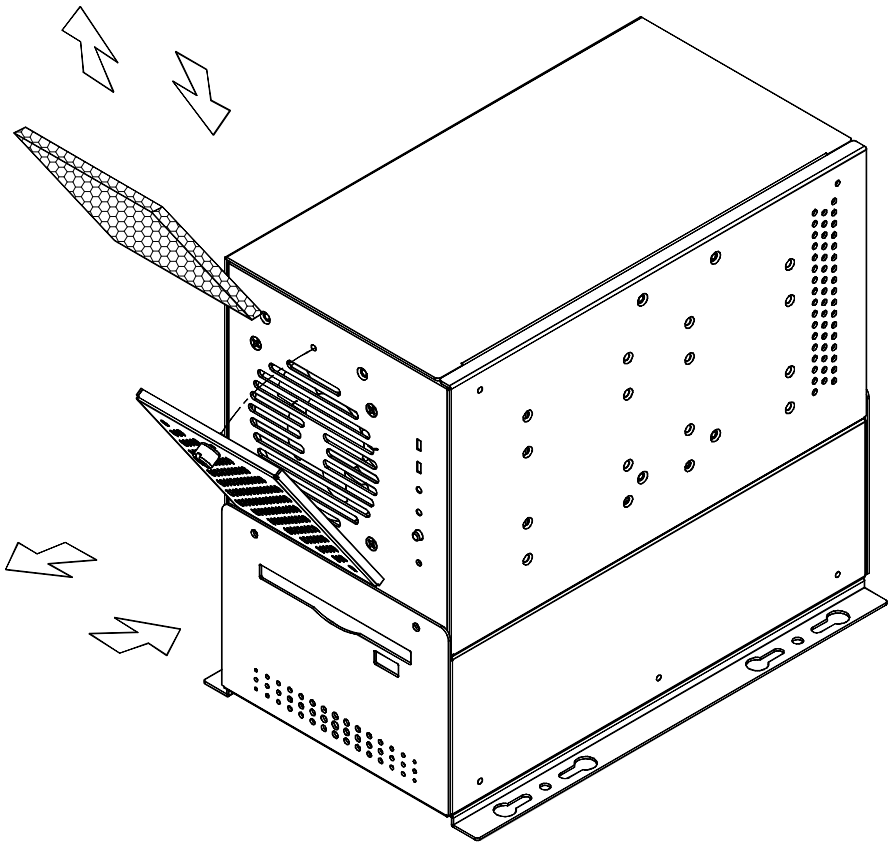
FDD should be fixed on the drive bay and then be installed on the bottom of chassis.





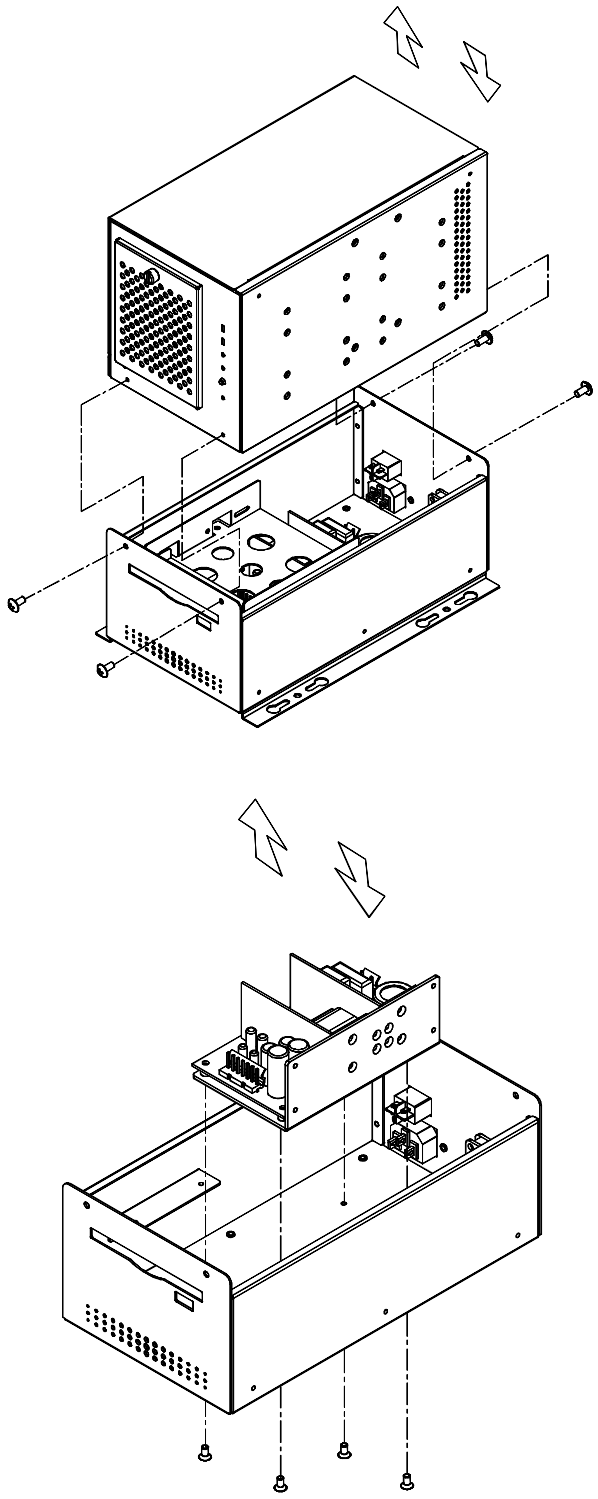
2.5 Replacing the Filter

The fan filter should be replaced or cleaned at suitable time while the filter is dirty. The figure illustrates how to replace the new filter.



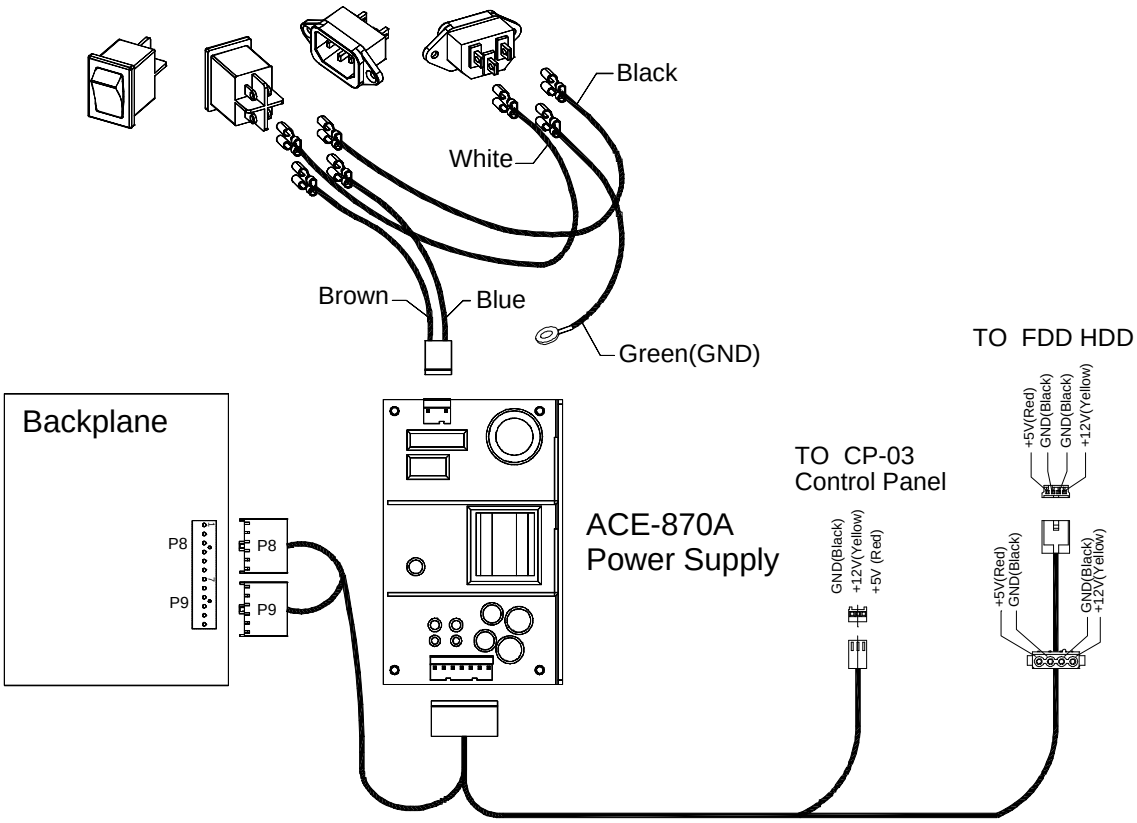
2.6 Power Supply Installation

PAC-42H is equipped with ACE-870A power supply. While installing the power supply, the cover of chassis should be released first as the figures show.



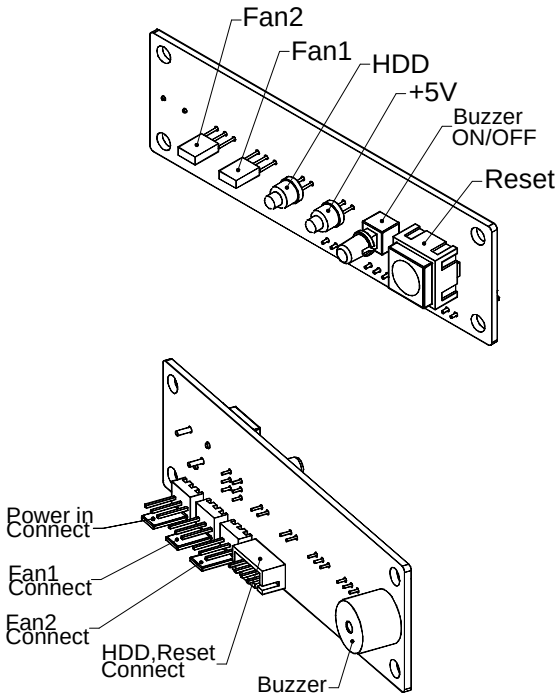
2.7 Power Cable Installation

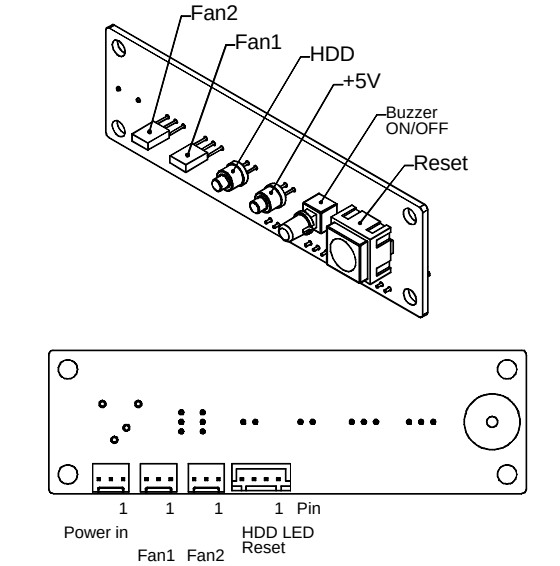
The following figure illustrates how to install ACE-870A power cable.



2.8 Indicator Control Board

Fan1 connector is suggested to be used and Fan2 connector is in reserve.





Power in

Pin#	Signal Name
1	+5V
2	+12V
3	GND

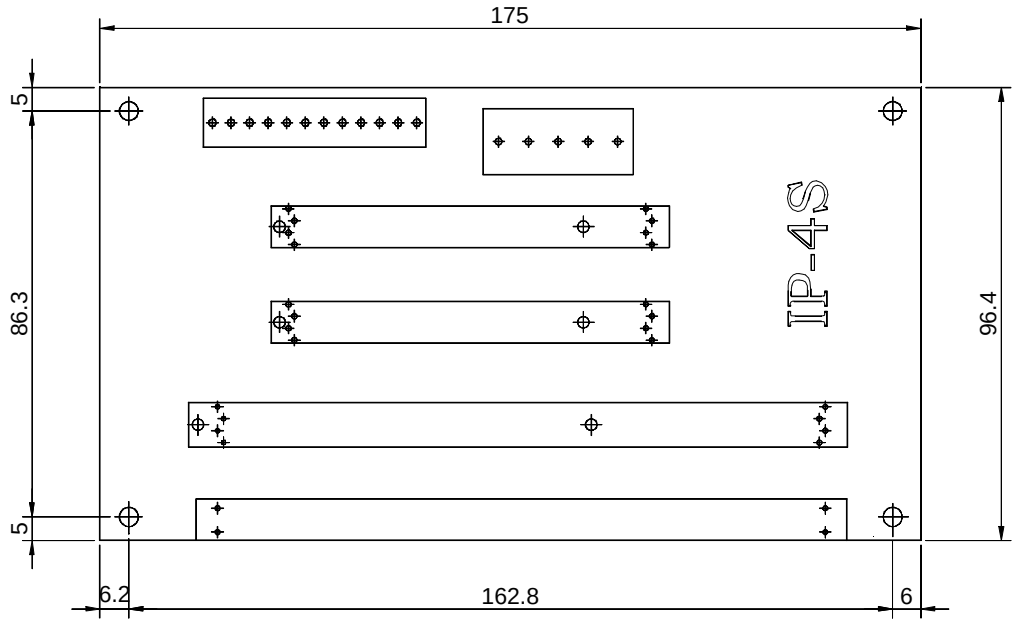
Fan

Pin#	Signal Name
1	Sensor
2	+12V
3	GND

HDD LED
Reset

Pin#	Signal Name
1	HDD LED
2	GND
3	Reset
4	GND

APPENDIX A PASSIVE BACKPLANE



APPENDIX B EXPLODED DIAGRAM